

ABSTRACT OF THE DISCLOSURE

A quilting apparatus for enabling a user to freely move a stack of fabric layers across a planar bed relative to an actuatable stitch head. The apparatus includes a motion detector which detects the movement of the stack and controls the actuation of the stitch head. Consequently, the apparatus functions to synchronize the delivery of stitch strokes by the head with the manually controlled movement of the quilt material stack. This frees the user to move the stack over a wide range of speeds, to start or stop movement at will, and to guide the stack in any direction across the planar bed.

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